BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
	C Cross Road in Venkateshwara Temple to Hanuman Temple									
	New Man Hole		-5	1.20			0.90	0.20	-1.08	
	old Man Hole		-1	1.20			0.90	0.20	-0.22	
	Kempegowda Road (M G Road)									
	New Man Hole		-1	1.20			0.90	0.20	-0.22	
	Near Kodigehalli Shmashana									
	New Man Hole		-1	1.20			0.90	0.20	-0.22	
	old Man Hole		-1	1.20			0.90	0.20	-0.22	
	Gangamma Bavi Cross Road									
	New Man Hole		-2	1.20			0.90	0.20	-0.43	
	Earth Work For Man Hole-Asphalt Road									
	3rd Cross Road (Anganavadi Kendra)									
	New Man Hole		-5	1.20			0.90	0.20	-1.08	
	old Man Hole		-1	1.20			0.90	0.20	-0.22	
	2nd Cross Road									
	New Man Hole		-2	1.20			0.90	0.20	-0.43	
	Devinagar Arch Oppt. Road									
	New Man Hole		-6	1.20			0.90	0.20	-1.30	
	Govt School Kodigehalli									
	New Man Hole		-2	1.20			0.90	0.20	-0.43	
							Total		**132.48**	**Cum**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

27/2/2019
Assistant Engineer

Assistant Executive Engineer
27/02/2019

Detailed Measurements

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
10	Refilling pipeline and foundation with selected trenches available earth form trench excavation and foundation inlcuding 5 watering, consolidation in layers of 15cms., thickness including disposing off the surplus earth with all leads & lifts.(BwsSB SR 2016-17, P-9 I-2)									
	Same as I.No 3 Qty								1231.38	
	Deductions									
	Pipe Volume		-1	791.20		0.7855	0.30	0.30	-55.93	
	GSB Qty								-99.36	
	WMM Qty								-132.48	
							Total		**943.61**	**Sqm**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

28/2/2019
Assistant Engineer

Assistant Executive Engineer
28/02/2019

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date										
11	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN DISINTEGRATED ROCK, SOFT ROCK, SOFT SHALE AND MEDIUM HARD ROCK COMPRISING OF LIME STONE, SAND STONE, HARD SHALE, SCHIEST, FISSURED ROCK without resorting to blast etc. for:Pipes of all dia. for depth upto 2.0 M Note : If any shoring and strutting, will be paid separately:.(BWSSB SR 2017-18, P-51 I No-2.1)										
	2nd Cross Road										
	0.00	20.00		1	20			0.90	2.00	36.00	
								Total		**36.00**	**Sqm`**

Consultant

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

28/2/19
Assistant Engineer

Assistant Executive Engineer
28/02/2019

Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
easurement Recorded ate									
mantling the damaged or collapsed manhole of 4" dia conical in shape and nstructing the same with machine made wire 6 brick in CM (1:4) as per design and ecification of new cut manhole 4" dia with old frame and cover excluding bed ncrete 13.6 (RwssR SR 2016-17, P-97, I-92 MTR DEPTH									
rth Work For Man Hole- ncrete Road									
mmandir Back Side Road		2						2.00	
d Man Hole		2						2.00	
Cross Road in									
d Man Hole		1						1.00	
Cross Road in									
d Man Hole		1						1.00	
ear Kodigehalli Shmashana									
d Man Hole		1						1.00	
arth Work For Man Hole-									
nd Cross Road (Anganavadi									
d Man Hole		1						1.00	
Rising of Old Man Hole		1						1.00	
		1						1.00	
		1						1.00	
		1						1.00	
		1						1.00	
						Total		**13.00**	**No's**

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

28/2/19
Assistant Engineer

Assistant Executive Engineer
28/2/2019

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
13	Providing and constructing "wire cut brick manhole chambers" using sulphate resistant cement, conical in shape at top with C.C. 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15 m alround the chamber and brick masonry in C.M. 1:4 plaster with wire cut bricks of approved quality and CM plaster 1:3 proportion 12 mm thick inside and outside except for the conical surface outside where the thickness of plaster shall be 20 mm thick, with 1:6 slope in the concrete towards the central drain, finished smooth and fixing of pipes in CC 1:2:4 graded metal of 20 mm and down size including conveying to work spot supplying & fixing SFRC manhole frame and cover confirming to IS:12592 with latest amendments in CC 1:2:4, supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia, Grade Fe-415 steel bar (as per IS 1786) staggered at 30 cms apart as detailed in Technical Specifications and as directed, watering, curring, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, dewatering, engraving manhole No. with flow irection on the inner conical surface etc., as per the drawing with wire cut bricks as per technical pecifications for the following diameters & depths by using Ordinary Port Land Cement. (inclusive of earthwork for all types of soil) (BwsSB SR 2017-18, P-80 I-83)									
	For 1.0 m depth									
	Earth Work For Man Hole-Concrete Road									
	Main Road From Venkateshwara Temple to Hanuman Temple									
	New Man Hole		9						9.00	
	A Cross Road in Venkateshwara Temple to									
	New Man Hole		3						3.00	
	B Cross Road in Venkateshwara Temple to									
	New Man Hole		3						3.00	
	C Cross Road in Venkateshwara Temple to									
	New Man Hole		4						4.00	
	Kempegowda Road (M G Road)									
	New Man Hole		1						1.00	
	Near Kodigehalli Shmashana									
	New Man Hole		1						1.00	
	Gangamma Bavi Cross Road									
	New Man Hole		2						2.00	
	Earth Work For Man Hole-Asphalt Road									
	3rd Cross Road (Anganavadi Kendra)									

Consultant

TEJUS CONSULTANTS

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

28/2/2019

Assistant Engineer

Assistant Executive Engineer

28/02/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
	New Man Hole		4						4.00	
	2nd Cross Road									
	New Man Hole		2						2.00	
	Devinagar Arch Oppt. Road									
	New Man Hole		5						5.00	
	Govt School Kodigehalli									
	New Man Hole		2						2.00	
							Total		**36.00**	**No's**
	For 1.5 m depth									
	Earth Work For Man Hole-Concrete Road									
	A Cross Road in Venkateshwara Temple to Hanuman Temple									
	New Man Hole		1						1.00	
	C Cross Road in Venkateshwara Temple to Hanuman Temple									
	New Man Hole		1						1.00	
	3rd Cross Road (Anganavadi Kendra)									
	New Man Hole		1						1.00	
	Devinagar Arch Oppt. Road									
	New Man Hole		1						1.00	
							Total		**4.00**	**No's**

Consultant

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer

28/02/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
14	Disposong off the excess excavated earth of all type up to a distance mentioned Every Km beyond 5 KM 8 Considering 10 Km below by vehicle including loading unloading with all lifts labour HOM of machinery etc., complete (BWSSB SR 2016-17, Pg-10, Item-7)									
	Concrete Dismantling								117.50	
	Pipe Volume Qty		1	791.20		0.7855	0.30	0.30	55.93	
							Total		**173.44**	**Cum**

Consultant

TEJAS CONSULTANTS

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Assistant Engineer

1/3/19

Assistant Executive Engineer

01/03/2019

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Measurement Recorded Date									
15	Hire Charges for 2HP dewatering pump to bail out water at leaking pits inclusive of hire charges etc, complete Rs.1300/- per day of 8hours shift per day (BWSSB SR 16-17 Sl.No-4, P-34)									
	Rammandir Back Side Road		2						2.00	
	Main Road From Venkateshwara Temple to Hanuman Temple									
	A Cross Road in Venkateshwara Temple to Hanuman Temple		2						2.00	
	B Cross Road in Venkateshwara Temple to									
	C Cross Road in Venkateshwara Temple to Hanuman Temple		1						1.00	
	Kempegowda Road (M G Road)									
	Near Kodigehalli Shmashana		1						1.00	
	Gangamma Bavi Cross Road									
	3rd Cross Road (Anganavadi		1						1.00	
	2nd Cross Road									
	Devinagar Arch Oppt. Road		1						1.00	
	Govt School Kodigehalli									
								Total	**8.00**	**Days**

TEJAS CONSULTANTS PVT. LTD.
Consultant

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

1/3/19
Assistant Engineer

Assistant Executive Engineer

01/03/2019